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TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371

ATTTORNEY'S DOCKET NUMBER GRA26 019US

37 CFR 1.5) **CONCERNING A SUBMISSION UNDER 35 U.S.C. 371** INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED PCT/US2004/020345 24 June 2004 (24.06.2004) 24 June 2003 (24.06.2003) TITLE OF INVENTION METHOD FOR SPARSE NETWORK DEPLOYMENT ACCURACY **ENHANCEMENTS** APPLICANT(S) FOR DO/EO/US Joseph P. KENNEDY, Jr.; John Peter CARLSON and Martin ALLES Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. The US has been elected (Article 31). \square A copy of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto (required only if not communicated by the International Bureau). has been communicated by the International Bureau. c. I is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). 7. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired,.. have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). An English language translation of the annexes of the International Preliminary Examination Report under PCT 10. l Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: An Information Disclosure Statement under 37 CFR 1.97 and 1.98. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. A preliminary amendment. An Application Data Sheet under 37 CFR 1.76. A substitute specification. A power of attorney and/or change of address letter. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825. A second copy of the published International Application under 35 U.S.C. 154(d)(4). A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). Other items or information: Return Receipt Postcard

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

C20 Rec'd PET/PTO 1 4 NOV 2009 PTO-1390 (Rev. 02-2005)
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U.S. APPLICATION NO. (if known, see 37 C	FR 1.5)	INTERNATIONAL AF	PLICATION NO.	ATTORNEY'S DO	CKET NUMBER
40/554404		PCT/US2004/0203	145 	GRA26 019L	JS
The following fees have been submi	tted			CALCULATIONS	PTO USE ONLY
21.	• • • • • • • • • • • • • • • • • • • •		\$300	\$ 300.00	
22.		•	\$100	\$ 100.00	
23. Search fee Search fee (37 CFR 1.445(a)(2)) has been pa International Searching Authority International Search Report prepared and pro All other situations	vided to th	ne Office	\$100 \$400	\$ 100.00	
TOTAL OF 21, 22 and 23 =				\$ 500.00	
Additional fee for specification and drawin sequence listing or computer program lis The fee is \$250 for each additional 50 sh	ting filed ir	n an electronic medium).	kcluding		
		Iditional 50 or fraction o a whole number)	RATE		
- 100 = /50 =			x \$250	\$	
Surcharge of \$130.00 for furnishing the oath o claimed priority date (37 CFR 1.492(e)).	or declarati	ion later than 30 months fr	om the earliest	\$	
CLAIMS NUMBER FILED	1	NUMBER EXTRA	RATE	\$	
Total claims 23 - 2	20 =	3	x \$ 50	\$ 150.00	
Independent claims 8 -	3 =	5	x \$200	\$ 1000.00	
MULTIPLE DEPENDENT CLAIM(S) (if application	able)		+ \$360	\$	
		TOTAL OF ABOVE	CALCULATIONS =	\$ 1150.00	
Applicant claims small entity status. See 3	37 CFR 1.2	27. Fees above are reduc	ed by 1/2.		
	-		SUBTOTAL =	\$ 1650.00	
Processing fee of \$130.00 for furnishing the El claimed priority date (37 CFR 1.492(f)).	nglish tran	slation later than 30 mont	ns from the earliest +	\$	
		TOTAL	NATIONAL FEE =	\$ 1,650.00	
Fee for recording the enclosed assignment (37 by an appropriate cover sheet (37 CFR 3.28, 3			st be accompanied +	\$	
		TOTAL FI	EES ENCLOSED =	\$ 1,650.00	
				Amount to be refunded:	\$
				Amount to be charged:	\$
a. A check in the amount of \$ 1,650.	00	to cover the abo	ve fees is enclosed.		
b. Please charge my Deposit Account I A duplicate copy of this sheet is encl		679 in the amount of \$	to co	ver the above fees.	
c. The Commissioner is hereby authoriz Account No. 04-1679 . A duplica		rge any additional fees wh f this sheet is enclosed.	ich may be required, o	or credit any overpaymen	t to Deposit t
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NOTE: Where an appropriate time limit under and granted to restore the International App			, a petition to revive	(37 CFR 1.137(a) or (b))	must be filed
SEND ALL CORRESPONDENCE TO:			That	Constant	
DUANE MORRIS LLP		/	SIGNATURE	- CIN 10-2	
1667 K Street, N.W., Suite 700			Mark C. Com	tois	
Washington, D.C. 20006			NAME		
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Express Mail	I mailing number:		Date of deposit: November 14, 2005
File reference	e no.: GRA26 019US	International applic	cation no. (if known): PCT/US2004/020345
Title of the in	vention: METHOD FOR SPARSE NETV	VORK DEPLOYMENT AC	CURACY ENHANCEMENTS
Earliest priori	ity date claimed (Day/Month/Year):	24 June 2003 (24.06	.2003)
☐ This is	a new International Application	H-13100	
SCREENING	G DISCLOSURE INFORMATION:	:	
license for for	sist in screening the accompanying int reign transmittal should and could be g eck as many boxes as apply):		for purposes of determining whether a surposes, the following information is
The inv	vention disclosed was not made in the	United States of Ame	rica.
There is	s no prior U.S. application relating to	this invention.	
attached	lowing prior U.S. application(s) conta d international application. (NOTE: pt (form PCT/RO/101) and this listing of	priority to these applic	h is related to the invention disclosed in the ations may or may not be claimed on the laim for priority.)
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